



Associates □ Consulting Engineers

27 Bleeker Street
Millburn, NJ 07041-1008
Telephone: 201-379-3400
Fax: 201-912-2400
Telex: 64-2057

November 15, 1992

SDMS Document



88397

Ms. Kathleen Katz
Case Manager
Industrial Site Evaluation Element
New Jersey Department of Environmental
Protection and Energy
CN 028
401 East State Street, Floor 5
Trenton, New Jersey 08625-0028

RE: October 1992 Monthly Progress
Report on Remedial Activities
at the Former Hexcel Site
205 Main Street, Lodi Borough
Bergen County, New Jersey
ECRA Case No. 86009

Dear Ms. Katz:

On behalf of Hexcel Corporation, Killam Associates (Killam), has prepared this summary report of remedial activities performed at the above referenced site during the period of October 1, 1992 to November 1, 1992. This report satisfies the requirements of Paragraph 36 of the New Jersey Department of Environmental Protection and Energy (NJDEPE) conditional approval letter of July 31, 1990.

A. GROUNDWATER

Collection of Basement Seepage Water

The air stripping towers and incinerator were operated during the month of October, 1992 in order to treat 4,050 gallons of basement seepage water collected during the month of September, 1992.

Upper Overburden Aquifer

No additional work was performed relating to the upper overburden aquifer during the month of October.

Lower Overburden Aquifer

No additional work was performed relating to the lower overburden aquifer during the month of October.

Pre-Treatment System Start-up

Killam is currently in the process of physically inspecting the groundwater recovery system. Killam personnel have been at the former Hexcel site noting depths at which the pumps are set, observing on/off controls for the system equipment, examining the air stripper units as part of routine maintenance, and reviewing the well locations and elevations with respect to the previously existing site plan.

Ms. Katz
November 15, 1992
Page Two

Killam has also been testing the groundwater recovery pumps. This activity includes setting the pumps on, measuring the discharge to determine flowrate, setting the proper cycles for a determined rate of discharge, and ensuring that the on/off controls for the pumps are functioning.

B. SOILS

Killam is currently reviewing and analyzing all soils data from the former Hexcel site. Maps illustrating the soils results are being prepared. In addition, Killam is compiling tables listing all soils results with notations where New Jersey Department of Environmental Protection and Energy (NJDEPE) Proposed Cleanup Standards (N.J.A.C. 7:26D) are exceeded. This information is expected to be submitted to the NJDEPE by December 15, 1992.

C. GROUNDWATER TREATMENT SYSTEM OPERATION

The 4,050 gallons of basement seepage water collected in the month of September was treated and discharged on October 27, 1992 to the Passaic Valley Sewer Commissioners. The MR-2 forms and the accompanying laboratory analyses of the aforementioned discharge may be found in Appendix A of this report. (The laboratory analyses are under a separate cover.)

D. DENSE NON-AQUEOUS PHASE LIQUID (DNAPL)

The DNAPL recovery system was not operated during the month of October.

E. LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL)

The LNAPL recovery system was not operated during the month of October.

F. STATUS OF PERMITS

Air Control Apparatus

No activity occurred during this time period.

NJPDES SIU Permit

A final NJPDES SIU Permit was issued on October 1, 1992. In this permit it was stated that "the treatment processes of pH adjustment, chemical coagulation/flocculation, and chemical addition have not been approved under treatment works approval (TWA) 90-4939-4L. Any proposed treatment processes not included in Hexcel Corporation's TWA number 90-4939-4L issued on February 28, 1991 shall require Hexcel Corporation to obtain a TWA modification from the Department prior to any construction of such units." Killam researched the original TWA Application and the TWA Approval of February 28, 1991, and found that pH adjustment,

Ms. Katz
November 15, 1992
Page Three

chemical coagulation/flocculation and chemical addition had been included in the TWA application and had been approved in the final TWA Approval as signed by Jeffrey Thein. Killam contacted Mr. Thein of the Wastewater Facilities Regulation Program at the NJDEPE and questioned this inconsistency. A letter has since been issued by Brenda Jorgan, Chief of SIU Permits which states that "Chemical addition, pH adjustment, and coagulation/flocculation were considered as associated system equipment to the treatment units specified in the said TWA (90-4939-4L)". Therefore, these processes are approved under TWA 90-4939-4L, and Hexcel is not required to apply for any modifications in this regard. A copy of this letter may be found in Appendix B of this report.

PVSC Discharge Permit

No additional work was performed relating to the PVSC permit during the month of October.

NJPDES Discharge to Groundwater Permit

No additional work was performed relevant to the NJPDES DGW Permit during the month of October.

NJPDES Discharge to Surface Water Permit

No additional work was performed relevant to the NJPDES DSW Permit during the month of October.

G. DRUM REMOVAL

On November 2, 1992, seventy-five drums were removed from the former Hexcel site and disposed of at Cycle Chem, Inc. located in Elizabeth, New Jersey. The following is a breakdown of the drums and their contents:

- 20 Drums of Personal Protective Equipment/Debris
- 2 Drums of Liquid Resin
- 35 Drums of Spent Carbon
- 1 Drum of M-Pyrol Wash
- 8 Drums of Mixed Solvents
- 8 Drums of Solid Resins
- 1 Drum of Floor Dye

The manifests for this activity are included in Appendix C of this report.

H. SLUDGE REMOVAL

Killam collected a composite sludge sample from sludge holding tanks H-3 and H-4 on August 26, 1992. The sample was sent to Accutest Laboratories of Dayton, New Jersey for waste classification analysis. A copy of the analytical results can be found in Appendix D under a separate cover.

Ms. Katz
November 15, 1992
Page Four

On November 4th and 5th, Killam observed Direct Environmental, Inc. of East Orange, New Jersey as they vacuumed approximately 2,400 gallons of sludge out of the sludge holding tanks H-3 and H-4 from the treatment system at the former Hexcel site.

The sludge was suctioned out and drummed using a power drummer. Hexcel is currently awaiting approval for disposal of the sludge at the APTUS facility located in Coffeyville, Kansas.

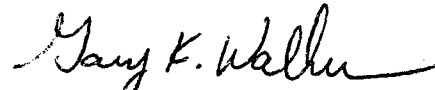
I. SCHEDULE UPDATE

Killam will submit a schedule with the December 15, 1992 soils submission.

If you have any questions or comments regarding this report, please do not hesitate to contact me at (201) 912-2489.

Very truly yours,

KILLAM ASSOCIATES



Gary K. Walker
Senior Project Scientist

cc: A. William Nosil, Hexcel Corporation
James Higdon, Fine Organics
Lisa Bromberg, Esq.
Essam Saleh, Hexcel Corporation

DJN:mmma:PROG4

883970004

APPENDIX A

**Laboratory Analyses for Basement
Seepage Discharge - Under a Separate Cover**

October 1992 MR-2 Form

USEL CHARGE SELF MONITORING REPORT

NAME: Fine Organics Corporation

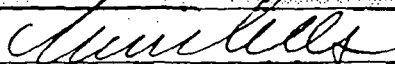
ADDRESS: 205 Main Street, Lodi, NJ 07644

FACILITY LOCATION: _____

OUTLET DESIGNATION (17 DIGITS): 17405041-37430-0171 Outlet # Industrial Sewer

MONITORING PERIOD					
10	01	92	10	31	92
MO	DAY	YEAR	MO	DAY	YEAR
START			END		

Vol Discharged This Period
4050 GAL.S.
CU.FT X 7.48 = Gallons
4050 GAL.S.
Effluent Meter Reading Last Day This Period

DATE	BOD 0310 (mg/l)	TSS 0530 (mg/l)	pH	COD	µg/l PCB	Station Location	Lab Sample #	Gal.
INFLUENT (RAW) SAMPLING :-								
9/04/92	1100	970	7.0	3800	430	TANK H5 THRU H7	E223513 E223514 E223515	—
EFFLUENT (AFTER TREATMENT) SAMPLING :-								
10/14/92	180	4.0	7.1	840	<0.51	FINAL TANK H1	E227095 E227096 E227097 E227098 E227099	4050
10/27/92	DISCHARGE TO P.V.S.C.							
						ND indicates less than 0.5 µg/l		
SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT			TYPE NAME AND TITLE			TELEPHONE NO.		
			DAVID H. KNOWLES			201-912-2584		
			LICENSED OPERATOR			201-379-6147		
						DATE 11/13/92		

PVSC FORM MR-2 REV. 2 1/86

92/R2043.T1

883970006

APPENDIX A

Laboratory Analyses for Basement Seepage Discharge for October, 1992

Influent Analyses-September 4, 1992

Effluent Analyses-October 14, 1992

October 1992 Monthly Progress Report on Remedial Activities
at the former Hexcel Corporation Site
Lodi, New Jersey
ECRA Case Number 86009

DRPSR DATA REVIEW CHECKLIST SUPPLEMENT

Case Name Hexcel
Case Number 86009
Laboratory Name(s) Accutest
RP Submitting Data Hexcel
Date of Document 10/15/92
Document Reviewed yes
QA/QC review complete - (YES) or NO

Once the QA review is complete, attach the analytical results summary sheets to this form and discard the QA/QC data. Attach this form and the summary sheets to the appropriate DRPSR Data Review Checklist or support group comments and include in the case file.

Note: Please be advised that the full QA/QC package has not been retained in the file. For copies, please contact the laboratory or the owner or operator referenced in the file. NJ certified laboratories are required to retain lab deliverables for a minimum of five years.

K. Kelly 5-2-93
Signature/Date



ACCUTEST®
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

RECEIVED
Nov 19 1 00 PM '92

KILLAM ASSOCIATES
27 BLEEKER STREET
MILLBURN, NJ 07041

DATE: 10/06/92
JOB No: 924980
PROJECT No: 225300-006
SAMPLE RECEIVED: 09/04/92

ATTN: DAVID KNOWLES

SAMPLE SUMMARY

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E223513	09/04/92	14:45	ES	WATER - I1, INFLUENT HEXCEL, LODI, NJ
E223514	09/04/92	14:45	ES	WATER - I2, INFLUENT HEXCEL, LODI, NJ
E223515	09/04/92	14:45	ES	WATER - I3, INFLUENT HEXCEL, LODI, NJ
E223516	09/04/92	14:45	ES	WATER - I1, INFLUENT HEXCEL, LODI, NJ

VINCENT J. PUGLIESE
PRESIDENT

883970009

1



ACCUTEST®
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E223513	09/04/92	14:45	ES	WATER - I1, INLFUENT HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
BIOCHEMICAL OXYGEN DEMAND, 5 DAY	1100	20	MG/L	09/06/92	LAF
SOLIDS, TOTAL SUSPENDED	970	4.0	MG/L	09/10/92	LMM
pH	7.0		SU	09/04/92	KW

UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

VINCENT J. PUGLIESE
PRESIDENT

883970010

2



ACCUTEST®
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E223514	09/04/92	14:45	ES	WATER - I2, INFLUENT HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
CHEMICAL OXYGEN DEMAND	3800	20	MG/L	09/11/92	KEG

UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

VINCENT J. PUGLIESE
PRESIDENT

883970011

3



ACCUTEST
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

CLIENT : KILLAM	Initial : >B1567	ANALYSIS DATE : 09/10/92
LAB SAMPLE #: E223515	Dilution #1 :	
MATRIX : WATER	Dilution #2 :	
METHOD : SW846 8240		

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	CHLOROMETHANE	ND	50000	
2)	BROMOMETHANE	ND	50000	
3)	VINYL CHLORIDE	ND	50000	
4)	CHLOROETHANE	ND	50000	
5)	METHYLENE CHLORIDE	740000	50000	
6)	ACETONE	ND	50000	
7)	CARBON DISULFIDE	ND	50000	
8)	1,1-DICHLOROETHENE	ND	50000	
9)	1,1-DICHLOROETHANE	ND	50000	
10)	1,2-DICHLOROETHENE (total)	ND	50000	
11)	CHLOROFORM	ND	50000	
12)	1,2-DICHLOROETHANE	ND	50000	
13)	2-BUTANONE	ND	50000	
14)	1,1,1-TRICHLOROETHANE	11000	50000	J
15)	CARBON TETRACHLORIDE	ND	50000	
16)	BROMODICHLOROMETHANE	ND	50000	
17)	1,2-DICHLOROPROPANE	ND	50000	
18)	cis-1,3-DICHLOROPROPENE	ND	50000	
19)	TRICHLOROETHYLENE	ND	50000	
20)	DIBROMOCHLOROMETHANE	ND	50000	
21)	1,1,2-TRICHLOROETHANE	ND	50000	
22)	BENZENE	ND	50000	
23)	trans,1,3-DICHLOROPROPENE	ND	50000	
24)	BROMOFORM	ND	50000	
25)	4-METHYL-2-PENTANONE	ND	50000	
26)	2-HEXANONE	ND	50000	
27)	TETRACHLOROETHYLENE	84000	50000	
28)	1,1,2,2-TETRACHLOROETHANE	ND	50000	
29)	TOLUENE	ND	50000	
30)	CHLOROBENZENE	ND	50000	
31)	ETHYLBENZENE	ND	50000	
32)	STYRENE	ND	50000	
33)	XYLENES (total)	ND	50000	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

{1} - RESULTS REPORTED FROM DILUTION #1
{2} - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

883970012

**ACCUTEST®**

2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT FOR SEMIVOLATILE ORGANICS BY GC/MS

CLIENT : KILLAM
 LAB SAMPLE #: E223515
 MATRIX : WATER
 METHOD : SW846 8270

DATA FILES :
 ANALYSIS DATE : 09/18/92
 Initial : >H5261
 Dilution #1 :
 Dilution #2 :

COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1) PHENOL	ND	210	
2) BIS(2-CHLOROETHYL)ETHER	ND	210	
3) 2-CHLOROPHENOL	ND	210	
4) 1,3-DICHLOROBENZENE	120	210	J
5) 1,4-DICHLOROBENZENE	470	210	
6) 1,2-DICHLOROBENZENE	2900	210	
7) 2-METHYLPHENOL	ND	210	
8) 2,2'-OXYBIS(1-CHLOROPROPANE)	ND	210	
9) 4-METHYLPHENOL	ND	210	
10) N-NITROSO-DI-n-PROPYLAMINE	ND	210	
11) HEXACHLOROETHANE	ND	210	
12) NITROBENZENE	ND	210	
13) ISOPHORONE	ND	210	
14) 2-NITROPHENOL	ND	210	
15) 2,4-DIMETHYLPHENOL	ND	210	
16) BIS(2-CHLOROETHOXY)METHANE	ND	210	
17) 2,4-DICHLOROPHENOL	ND	210	
18) 1,2,4-TRICHLOROBENZENE	44	210	J
19) NAPHTHALENE	610	210	
20) 4-CHLOROANILINE	ND	210	
21) HEXACHLOROBUTADIENE	ND	210	
22) 4-CHLORO-3-METHYLPHENOL	ND	210	
23) 2-METHYLNAPHTHALENE	310	210	
24) HEXACHLOROCYCLOPENTADIENE	ND	210	
25) 2,4,6-TRICHLOROPHENOL	ND	210	
26) 2,4,5-TRICHLOROPHENOL	ND	1000	
27) 2-CHLORONAPHTHALENE	ND	210	
28) 2-NITROANILINE	ND	1000	
29) DIMETHYLPHTHALATE	ND	210	
30) ACENAPHTHYLENE	ND	210	
31) 2,6-DINITROTOLUENE	ND	210	
32) 3-NITROANILINE	ND	1000	
33) ACENAPHTHENE	ND	210	
34) 2,4-DINITROPHENOL	ND	1000	
35) 4-NITROPHENOL	ND	1000	
36) DIBENZOFURAN	ND	210	
37) 2,4-DINITROTOLUENE	ND	210	
38) DIETHYLPHTHALATE	ND	210	
39) 4-CHLOROPHENYL-PHENYLETHER	ND	210	
40) FLUORENE	ND	210	
41) 4-NITROANILINE	ND	1000	
42) 4,6-DINITRO-2-METHYLPHENOL	ND	1000	
43) N-NITROSODIPHENYLAMINE	ND	210	
44) 4-BROMOPHENYL-PHENYLETHER	ND	210	
45) HEXACHLOROBENZENE	ND	210	
46) PENTACHLOROPHENOL	ND	1000	
47) PHENANTHRENE	ND	210	
48) ANTHRACENE	ND	210	
49) CARBAZOLE	ND	210	
50) DI-n-BUTYLPHTHALATE	ND	210	
51) FLUORANTHENE	ND	210	
52) PYRENE	ND	210	
53) BUTYLBENZYLPHTHALATE	ND	210	
54) 3,3'-DICHLOROBENZIDINE	ND	210	
55) BENZO(a)ANTHRACENE	ND	210	
56) CHRYSENE	ND	210	
57) BIS(2-ETHYLHEXYL)PHTHALATE	ND	210	
58) DI-n-OCTYLPHTHALATE	ND	210	
59) BENZO(b)FLUORANTHENE	ND	210	
60) BENZO(k)FLUORANTHENE	ND	210	
61) BENZO(a)PYRENE	ND	210	
62) INDENO(1,2,3-cd)PYRENE	ND	210	
63) DIBENZ(a,h)ANTHRACENE	ND	210	
64) BENZO(g,h,i)PERYLENE	ND	210	

ND = NOT DETECTED

MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
 (2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J = INDICATES AN ESTIMATED VALUE BELOW MDL

B = INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE

E = ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

883970013



ACCUTEST
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT FOR 2,3,7,8 - TCDD SCREEN BY GC/MS

	<u>DATA FILES</u>	<u>ANALYSIS DATE</u>
CLIENT : KILLAM	Initial : >E4373	09/23/92
LAB SAMPLE #: E223515	Dilution #1 :	
MATRIX : WATER	Dilution #2 :	
METHOD : SW846 8270		

<u>COMPOUND</u>	<u>RESULT (ug/L)</u>	<u>MDL (ug/L)</u>	<u>Q</u>
1) 2,3,7,8 - TCDD	ND	N/A	S

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT
N/A= NOT APPLICABLE

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE
S =QUALITATIVE SCREEN ONLY

883970014



ACCUTEST®
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E223515	09/04/92	14:45	ES	WATER - I3, INFLUENT HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
------------------	--------	-----	-------	------	------

PCB'S

AROCHLOR 1016	ND	0.52	UG/L	09/11/92	KSH
AROCHLOR 1221	ND	0.52	UG/L	09/11/92	KSH
AROCHLOR 1232	ND	0.52	UG/L	09/11/92	KSH
AROCHLOR 1242	430	26	UG/L	09/11/92	KSH
AROCHLOR 1248	ND	0.52	UG/L	09/11/92	KSH
AROCHLOR 1254	ND	0.52	UG/L	09/11/92	KSH
AROCHLOR 1260	ND	0.52	UG/L	09/11/92	KSH

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

VINCENT J. PUGLIESE
PRESIDENT

883970015



ACCUTEST®
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E223516	09/04/92	14:45	ES	WATER - I1, INFLUENT HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
CHROMIUM	0.031	0.010	MG/L	09/17/92	BDB
COPPER	0.087	0.020	MG/L	09/17/92	BDB
LEAD	0.028	0.005	MG/L	09/14/92	MR
NICKEL	0.25	0.040	MG/L	09/17/92	BDB
ZINC	1.0	0.050	MG/L	09/17/92	BDB

UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

VINCENT J. PUGLIESE
PRESIDENT

883970016

Client Name: HEXCEL CORP. LODI-N.J.

Project # and Type: 225300-006

Work ID: _____

Project Manager: DAVID KNOWLES

Collected by (print): ESSAM E SALEH

Preserved by: _____

Signature: ESSAM E SALEH

Before Sampling _____ After Sampling _____

Lab Work Order: _____

Lab No.	Sample Number	Sample Location	Collected		Analyses	Notes
			Date	Time		
225313	I1	INFLUENT	09/04/92	1445	BOD's T.P.H. COD's T.T.O. XXX	pH 7.0 T.T.O.W/DIOXIN SCAN, W/PCB'S ALL INFLUENT SAMPLES ARE RAW MIX.
225314	I2	INFLUENT	09/04/92	1445		
225315	I3	INFLUENT	09/04/92	1445		

Report Format: UST ECRA TIER IIB NJPDES DMR
JM Other _____

Preservation Checked in Lab by: _____

Turnaround Time: USUAL

Additional Comments No preserved bottle rec'd for COD analysis 9-4-92
One bottle preserved for COD analysis at Accutest 9-4-92

Samples Relinquished By:	Samples Received By:	Date/Time
ESSAM E SALEH	Robert Wahby	09/04/92-1500
Robert Wahby	H. Will	9/4/92 17:00



2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

11/18/92

TECHNICAL REPORT FOR KILLAM ASSOCIATES

SAMPLES TAKEN AT: HEXCEL, LODI, NJ
CLIENT PROJECT ID: 225300-006
ACCUTEST JOB NUMBER: 925708
SAMPLES RECEIVED AT ACCUTEST ON: 10/14/92
NUMBER OF SAMPLES IN THIS REPORT: 6
TOTAL NUMBER OF PAGES IN REPORT: 139

VINCENT J. PUGLIESE
PRESIDENT

NOTE: THIS REPORT SHOULD ONLY BE REPRODUCED IN FULL

883970019



ACCUTEST®
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

KILLAM ASSOCIATES
27 BLEEKER STREET
MILLBURN, NJ 07041

DATE: 11/18/92
JOB No: 925708
PROJECT No: 225300-006
SAMPLE RECEIVED: 10/14/92

ATTN: DAVID KNOWLES

SAMPLE SUMMARY

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E227095	10/14/92	16:00	ES	WATER - E1, EFFLUENT HEXCEL, LODI, NJ
E227096	10/14/92	15:30	ES	WATER - E2, EFFLUENT HEXCEL, LODI, NJ
E227097	10/14/92	15:30	ES	WATER - E3, EFFLUENT HEXCEL, LODI, NJ
E227098	10/14/92	15:30	ES	WATER - E4, EFFLUENT HEXCEL, LODI, NJ
E227099	10/14/92	15:30	ES	WATER - E5, EFFLUENT HEXCEL, LODI, NJ
E227100	10/14/92	15:30	ES	WATER - E6, EFFLUENT HEXCEL, LODI, NJ

VINCENT J. PUGLIESE
PRESIDENT

883970020

1

**ACCUTEST®**

2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E227095	10/14/92	16:00	ES	WATER - E1, EFFLUENT HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
BIOCHEMICAL OXYGEN DEMAND, 5 DAY	180	2.0	MG/L	10/15/92	LAF

UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

883970021

2



ACCUTEST®
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E227096	10/14/92	15:30	ES	WATER - E2, EFFLUENT HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
SOLIDS, TOTAL SUSPENDED	4.0	4.0	MG/L	10/15/92	LMM
pH	7.1		SU	10/14/92	KW

UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

883970022

3

ANALYSIS REPORT

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E227097	10/14/92	15:30	ES	WATER - E3, EFFLUENT HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
CHEMICAL OXYGEN DEMAND	840	20	MG/L	10/21/92	FLR

UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

883970023

4



2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E227098	10/14/92	15:30	ES	WATER - E4, EFFLUENT HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
------------------	--------	-----	-------	------	------

PCB'S

AROCHLOR 1016	ND	0.51	UG/L	10/21/92	BPO
AROCHLOR 1221	ND	0.51	UG/L	10/21/92	BPO
AROCHLOR 1232	ND	0.51	UG/L	10/21/92	BPO
AROCHLOR 1242	ND	0.51	UG/L	10/21/92	BPO
AROCHLOR 1248	ND	0.51	UG/L	10/21/92	BPO
AROCHLOR 1254	ND	0.51	UG/L	10/21/92	BPO
AROCHLOR 1260	ND	0.51	UG/L	10/21/92	BPO

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

883970024

5



ACCUTEST®
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		<u>DATA</u> <u>FILES</u>	<u>ANALYSIS</u> <u>DATE</u>
CLIENT :	KILLAM	Initial :	>04878
LAB SAMPLE #:	E227099	Dilution #1 :	
MATRIX :	WATER	Dilution #2 :	
METHOD :	EPA 624		10/17/92

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	100	
2)	ACRYLONITRILE	ND	100	
3)	BENZENE	ND	5.0	
4)	BROMOFORM	ND	5.0	
5)	BROMODICHLOROMETHANE	ND	5.0	
6)	BROMOMETHANE	ND	10	
7)	CARBON TETRACHLORIDE	ND	5.0	
8)	CHLOROBENZENE	110	5.0	
9)	CHLOROETHANE	ND	10	
10)	2-CHLOROETHYL VINYL ETHER	ND	10	
11)	CHLOROFORM	ND	5.0	
12)	CHLOROMETHANE	ND	10	
13)	cis-1,3-DICHLOROPROPENE	ND	5.0	
14)	DIBROMOCHLOROMETHANE	ND	5.0	
15)	1,2-DICHLOROBENZENE	71	5.0	
16)	1,3-DICHLOROBENZENE	ND	5.0	
17)	1,4-DICHLOROBENZENE	ND	5.0	
18)	1,1-DICHLOROETHANE	ND	5.0	
19)	1,2-DICHLOROETHANE	ND	5.0	
20)	1,1-DICHLOROETHYLENE	ND	5.0	
21)	trans-1,2-DICHLOROETHYLENE	ND	5.0	
22)	trans-1,3-DICHLOROPROPENE	ND	5.0	
23)	1,2-DICHLOROPROPANE	ND	5.0	
24)	ETHYLBENZENE	ND	5.0	
25)	METHYLENE CHLORIDE	150	5.0	
26)	1,1,2,2-TETRACHLOROETHANE	ND	5.0	
27)	TETRACHLOROETHYLENE	43	5.0	
28)	TOLUENE	1.7	5.0	J
29)	1,1,1-TRICHLOROETHANE	ND	5.0	
30)	1,1,2-TRICHLOROETHANE	ND	5.0	
31)	TRICHLOROETHYLENE	1.9	5.0	J
32)	TRICHLOROFLUOROMETHANE	ND	5.0	
33)	VINYL CHLORIDE	ND	10	
34)	XYLENE (TOTAL)	ND	5.0	
35)	DIOXANE	ND	500	
36)	ETHYLENIMINE	**	**	
37)	ETHYLENE DIBROMIDE	ND	5.0	

ND = NOT DETECTED (1) - RESULTS REPORTED FROM DILUTION #1
MDL= METHOD DETECTION LIMIT (2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE
**=THIS COMPOUND IS NOT PURGEABLE AT ANY SIGNIFICANT CONCENTRATION

ANALYSIS REPORT FOR BASE NEUTRAL EXTRACTABLES BY GC/MS

		<u>DATA FILES</u>	<u>ANALYSIS DATE</u>
CLIENT :	KILLAM	Initial :	>C6819
LAB SAMPLE #:	E227099	Dilution #1 :	10/30/92
MATRIX :	WATER	Dilution #2 :	
METHOD :	SW846 8270		

COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1) ACENAPHTHENE	ND	10	
2) ACENAPHTHYLENE	ND	10	
3) ANTHRACENE	ND	10	
4) BENZIDENE	ND	52	
5) BENZO (A) ANTHRACENE	ND	10	
6) BENZO (A) PYRENE	ND	10	
7) BENZO (B) FLUORANTHENE	ND	10	
8) BENZO (K) FLUORANTHENE	ND	10	
9) BENZO (G, H, I) PERYLENE	ND	10	
10) BIS (2-CHLOROETHOXY) METHANE	ND	10	
11) BIS (2-CHLOROETHYL) ETHER	ND	10	
12) BIS (2-CHLOROISOPROPYL) ETHER	ND	10	
13) BIS (2-ETHYLHEXYL) PHTHALATE	3.5	10	J
14) 4-BROMOPHENYL PHENYL ETHER	ND	10	
15) BUTYL BENZYL PHTHALATE	ND	10	
16) 2-CHLORONAPHTHALENE	ND	10	
17) 4-CHLOROPHENYL PHENYL ETHER	ND	10	
18) CHRYSENE	ND	10	
19) DIBENZO (A, H) ANTHRACENE	ND	10	
20) 1,2-DICHLORO BENZENE	27	10	
21) 1,3-DICHLORO BENZENE	1.6	10	J
22) 1,4-DICHLORO BENZENE	4.1	10	J
23) 3,3'-DICHLORO BENZIDENE	ND	21	
24) DIETHYL PHTHALATE	ND	10	
25) DIMETHYL PHTHALATE	ND	10	
26) DI-N-BUTYL PHTHALATE	ND	10	
27) 2,4-DINITROTOLUENE	ND	10	
28) 2,6-DINITROTOLUENE	ND	10	
29) DI-N-OCTYL PHTHALATE	ND	10	
30) 1,2-DIPHENYLHYDRAZINE	ND	10	
31) FLUORANTHENE	ND	10	
32) FLUORENE	ND	10	
33) HEXACHLORO BENZENE	ND	10	
34) HEXACHLOROBUTADIENE	ND	10	
35) HEXACHLOROCYCLOPENTADIENE	ND	10	
36) HEXACHLOROETHANE	ND	10	
37) INDENO (1,2,3-CD) PYRENE	ND	10	
38) ISOPHORONE	ND	10	
39) NAPHTHALENE	ND	10	
40) NITROBENZENE	ND	10	
41) N-NITROSODIMETHYLAMINE	1.4	10	J
42) N-NITROSODI-N-PROPYLAMINE	ND	10	
43) N-NITROSODIPHENYLAMINE	ND	10	
44) PHENANTHRENE	ND	10	
45) PYRENE	ND	10	
46) 1,2,4-TRICHLORO BENZENE	ND	10	

ND = NOT DETECTED

MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL

B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE

E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE



2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT FOR ACID EXTRACTABLES BY GC/MS

CLIENT : KILLAM
LAB SAMPLE #: E227099
MATRIX : WATER
METHOD : SW846 8270

DATA FILES :
ANALYSIS DATE : 10/30/92
Initial : >C6819
Dilution #1 :
Dilution #2 :

COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1) 4-CHLORO-3-METHYL PHENOL	ND	21	
2) 2-CHLOROPHENOL	ND	10	
3) 2,4-DICHLOROPHENOL	ND	10	
4) 2,4-DIMETHYLPHENOL	ND	10	
5) 2,4-DINITROPHENOL	ND	52	
6) 2-METHYL-4,6-DINITROPHENOL	ND	52	
7) 2-NITROPHENOL	ND	10	
8) 4-NITROPHENOL	ND	52	
9) PENTACHLOROPHENOL	ND	52	
10) PHENOL	ND	10	
11) 2,4,6-TRICHLOROPHENOL	ND	10	

ND = NOT DETECTED

MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL

B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE

E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE



ACCUTEST®
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT FOR 2,3,7,8 - TCDD SCREEN BY GC/MS

		<u>DATA FILES</u>	<u>ANALYSIS DATE</u>	
CLIENT	: KILLAM	Initial	: >E4981	11/12/92
LAB SAMPLE #	: E227099	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: SW846 8270			

<u>COMPOUND</u>	<u>RESULT (ug/L)</u>	<u>MDL (ug/L)</u>	<u>Q</u>
1) 2,3,7,8 - TCDD	ND	N/A	S

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT
N/A= NOT APPLICABLE

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE
S =QUALITATIVE SCREEN ONLY



2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E227099	10/14/92	15:30	ES	WATER - E5, EFFLUENT HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PESTICIDES					
ALDRIN	ND	0.11	UG/L	10/25/92	KSH
alpha-BHC	ND	0.11	UG/L	10/25/92	KSH
beta-BHC	ND	0.11	UG/L	10/25/92	KSH
delta-BHC	ND	0.11	UG/L	10/25/92	KSH
gamma-BHC	ND	0.11	UG/L	10/25/92	KSH
CHLORDANE	ND	0.53	UG/L	10/25/92	KSH
4,4'-DDD	ND	0.11	UG/L	10/25/92	KSH
4,4'-DDE	ND	0.11	UG/L	10/25/92	KSH
4,4'-DDT	ND	0.11	UG/L	10/25/92	KSH
DIELDRIN	ND	0.11	UG/L	10/25/92	KSH
ENDOSULFAN I	ND	0.11	UG/L	10/25/92	KSH
ENDOSULFAN II	ND	0.11	UG/L	10/25/92	KSH
ENDOSULFAN SULFATE	ND	0.11	UG/L	10/25/92	KSH
ENDRIN	ND	0.11	UG/L	10/25/92	KSH
ENDRIN ALDEHYDE	ND	0.11	UG/L	10/25/92	KSH
HEPTACHLOR	ND	0.11	UG/L	10/25/92	KSH
HEPTACHLOR EPOXIDE	ND	0.11	UG/L	10/25/92	KSH
METHOXYCHLOR	ND	0.11	UG/L	10/25/92	KSH
TOXAPHENE	ND	5.3	UG/L	10/25/92	KSH

ND = NOT DETECTED

UG/L = PPB MG/L = PPM

MDL = METHOD DETECTION LIMIT



ACCUTEST®
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E227100	10/14/92	15:30	ES	WATER - E6, EFFLUENT HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PETROLEUM HYDROCARBONS	<0.50	0.50	MG/L	10/19/92	ART

UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

883970030

11

CHAIN OF CUSTODY

JOB NO.:

920891N

PROJECT NO.:

FACILITY NAME:

APPROVED:

☒ OTHER:

МАПК ✓

ASAF

883970031

Accutest of New England

BILL TO:

JENT

795 Technology Center West, Bldg. 1
ADDRESS

ADDRESS

Marlborough Mass / 01752
 CITY STATE / ZIP

STATE / ZIP

John Hamilton 508-481-6200

TENTION

TELEPHONE #

REQUESTED TURN AROUND:

☐ 1 WEEK ☐ 2 WEEKS ☐ 3 WEEKS ☐ NORMAL[illegible]

CIA FIREX
 [Signature]



1. RELINQUISHED BY:

DATE/TIME:

1. RECEIVED BY:

3. RELINQUISHED BY:

DATE/TIME:

3. RECEIVED BY:

SAMPLE LOCATION:

2. RELINQUISHED BY:

DATE/TIME:

2. RECEIVED BY:

4. RELINQUISHED BY:

DATE/TIME:

4. RECEIVED BY:

A.C.N.E.
3D

DELIVERABLE PACKAGE (check one)

☒ ECRA TIER II ☐ NJPDES ☐ TIER I ☐ NORMAL QC ☐ OTHER

COMMENTS:

APPENDIX B

Letter from Brenda Jorgan, Chief of SIU Permits
November 4, 1992



State of New Jersey
Department of Environmental Protection and Energy
Environmental Regulation
Wastewater Facilities Regulation Program
CN 029
Trenton, NJ 08625-0029

Scott A. Weiner
Commissioner

Dennis Hart
Administrator

NOV 04 1992

Debbie Nardacci
Killam Associates
27 Bleeker Street
Milburn, NJ 07041

Re: Treatment Works Approval (TWA) No. 90-4939-4L
Former Hexcel Corporation Facility, Lodi, New Jersey

This is a follow up to your telephone conversation with Jeffrey Thein of my staff regarding treatment processes approved under TWA number 90-4939-4L, issued February 28, 1992 which authorizes the construction and operation of all treatment units and associated system equipment specified in the TWA application. Chemical addition, pH adjustment, and coagulation/flocculation were considered as associated system equipment to the treatment units specified in the said TWA.

If you have any questions regarding this letter, please contact Jeffrey Thein at (609) 292-4860.

Sincerely,

Brenda Jogan, Chief
SIU Permits Section
Bureau of Industrial Discharge Permits

WFM343:jt

RECEIVED

NOV 6 1992

KILLAM ASSOCIATES
27 BLEEKER ST. MILBURN, NJ

Nardacci

APPENDIX C

Hazardous Waste Manifests for Drum Removal
November 2, 1992

Please type or print in block letters. Form designed for use on elite (12-pin) typewriter.

Form No. 101-1000 Expires 9-30-90

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N J D 9 8 6 5 8 4 1 3 4 0 2 9 0 7	Manifest 1. Date 1	2. State 1
3. Generator's Name and Mailing Address Hexcel Corporation 205 Main Street, Lodi, New Jersey 07644 Tel: (201) 472-6800			A. State Trans ID Number NJA 1402907	
4. Transporter's Name AllChem Transport			B. State Generator ID SAME	
5. US EPA ID Number N J D 0 0 3 8 1 1 7 2 6			C. State Trans ID NJDEPE S 0 8 2 9 0	
6. US EPA ID Number			D. Transporter's Phone 908 382-1600	
7. US EPA ID Number			E. State Trans ID	
8. US EPA ID Number			F. Transporter's Phone	
9. US EPA ID Number			G. State Agency ID	
10. US EPA ID Number			H. Facility's Phone 908 355-5800	

11. US DOT Description (including Proper Shipping Name, Hazard Class, and Quantity)	12. Quantity	13. Unit	14. Waste No.
RM	No	Type	Quantity
RQ Hazardous Waste Solid, N.O.S. Guide # 31 X ORM-E NA9189 (D007)	12.0	DM	3358 P D 0 0 7
RQ Hazardous Waste Liquid, N.O.S. Guide # 31 X ORM-E NA9189 (F002)(F003)(F005)	1.0	DM	55 G F 0 0 3
RQ Hazardous Waste Solid, n.o.s. Guide # 31 X ORM-E NA9189 (F001)	3.5	DM	7819 P F 0 0 2
RQ Hazardous Waste Liquid, N.O.S. Guide # 31 X ORM-E NA9189 (F002)	1.0	DM	55 G F 0 0 2

S,T,E PPE & Debris 100%	S,T Spent Carbon 100% (D028)
L,T Liquid Resin 100% (D022)	L,E,T Liquid Resin 100%

11a) 344394-LM102	DEI Job # 920143	PO # 1780
11b) 344394-MSP021	VIN # T669X	NJ Decal # 14895
11c) 344394-MSP039		
11d) 344394-PET002	24Hr. Emergency Phone # (201)677-1800	

ESSAM E SALEH

x WALT LALESKI

ESSAM E SALEH 110292

x Walt Luesh 110292

1 - TSD MAIL TO - TSD'S STATE

II-2.5

Please type or print in block letters. Form designed for use in data (dot-matrix) typewriter.

UNIFORM HAZARDOUS
WASTE MANIFEST

Manifest US EPA ID No.
N J D 9 8 6 5 8 4 1 3 4 0 2 9 0 8

Shaded areas
Controlled by Federal
Law

1. Generator's Name and Mailing Address

Hexcel Corporation
205 Main Street, Lodi, New Jersey 07644

NJA 1402908

Generator's Phone: 201 472-6800

SAME

2. Transporter's Company Name

AllChem Transport

N J D 0 0 3 8 1 1 7 2 6

NJDEPE S 0 8 2 9 0

908 382-1600

3. Shipped Facility Name and Site Address

Cycle Chem Incorporated
217 South First Street
Elizabeth, New Jersey 07206

N J D 0 0 2 2 0 0 0 4 6

908 355-5800

4. US DOT Hazard Class Including Proper Shipping Name (Type in block letters)

Waste No

X RQ Waste Flammable Liquid, N.O.S. Guide # 27
Flammable Liquid UN1993 (Xylene, Acetone)
(D001)(F003)(F005)

XXI DMXXX55 G F003, F005
D 0 0 1
F 0 0 2

X RQ Waste Flammable Liquid, N.O.S. Guide # 27
Flammable Liquid UN1993
(Mineral Spirits, Toluene) (D001)(F002)(F003)(F005)

XXVIII DMXXX440 G F 0 0 3
F 0 0 2 HA
F 0 0 5

X RQ Hazardous Waste Solid, N.O.S. Guide # 31
ORM-E NA9189 (F002)(F003)(F005)

XXVIII DMX1815 P /F 0 0 2
F 0 0 3
F 0 0 5

Waste Chemical Process Liquid
NON RCRA/NON DOT Regulated Material

XXI DMXXX55 G X 9 0 0

SL,I,T,E (D021)(D039)(D018)(D022) S,T

M-Pryol Wash Solvents 100% Solid Resins 100%

L,I,T,E (D018)(D039)
Mixed Solvents 100%

L Water 95% Dye 5%

11a) 344394-MSP020
11b) 344394-PET012
11c) 344394-MSP006
11d) 344394-DW001

DEI Job # 920143
VIN # T669X

PO # 1780
NJ Decal # 14895

24Hr. Emergency Phone # (201)677-1800

ESSAM E SALEH

ESSAM E SALEH

110292

Walt Lanieski

WALT LANIESKI

110292

NJA 1402908

APPENDIX D
Under a Separate Cover

Sludge Analytical Results
August 26, 1992

APPENDIX D

Sludge Analytical Results
August 26, 1992

October 1992 Monthly Progress Report on Remedial Activities
at the former Hexcel Corporation Site
Lodi, New Jersey
ECRA Case Number 86009

883970038

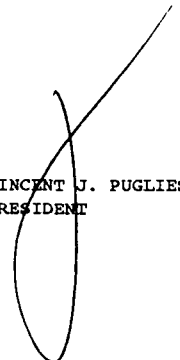
KILLAM ASSOCIATES
27 BLEEKER STREET
MILLBURN, NJ 07041

DATE: 09/24/92
JOB No: 924824
PROJECT No: 225300
SAMPLE RECEIVED: 08/26/92

ATTN: DAVID KNOWLES

SAMPLE SUMMARY

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E222473	08/26/92	08:30	EE	OTHER-SOLID - T-1, V-1, COMPOSITE HEXCEL, LODI, NJ


VINCENT J. PUGLIESE
PRESIDENT

883970039

1

ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		<u>DATA</u>	<u>ANALYSIS</u>
		<u>FILES</u>	<u>DATE</u>
CLIENT	: KILLAM	Initial	: >B1362 08/31/92
LAB SAMPLE #	: E222473	Dilution #1	: >B1413 09/02/92
MATRIX	: SOIL	Dilution #2	:
METHOD	: SW846 8240		

	COMPOUND	RESULT (ug/kg) *	MDL (ug/kg) *	Q
1)	ACROLEIN	ND	2500000	
2)	ACRYLONITRILE	ND	2500000	
3)	BENZENE	ND	130000	
4)	BROMOFORM	ND	130000	
5)	BROMODICHLOROMETHANE	ND	130000	
6)	BROMOMETHANE	ND	250000	
7)	CARBON TETRACHLORIDE	ND	130000	
8)	CHLOROBENZENE	3200000	130000	
9)	CHLOROETHANE	ND	250000	
10)	2-CHLOROETHYL VINYL ETHER	ND	250000	
11)	CHLOROFORM	ND	130000	
12)	CHLOROMETHANE	ND	250000	
13)	cis-1,3-DICHLOROPROPENE	ND	130000	
14)	DIBROMOCHLOROMETHANE	ND	130000	
15)	1,2-DICHLOROBENZENE	4800000 (1)	1300000	
16)	1,3-DICHLOROBENZENE	ND	130000	
17)	1,4-DICHLOROBENZENE	ND	130000	
18)	1,1-DICHLOROETHANE	ND	130000	
19)	1,2-DICHLOROETHANE	ND	130000	
20)	1,1-DICHLOROETHYLENE	ND	130000	
21)	trans-1,2-DICHLOROETHYLENE	680000	130000	
22)	trans-1,3-DICHLOROPROPENE	ND	130000	
23)	1,2-DICHLOROPROPANE	ND	130000	
24)	ETHYLBENZENE	ND	130000	
25)	METHYLENE CHLORIDE	3400000	130000	
26)	1,1,2,2-TETRACHLOROETHANE	ND	130000	
27)	TETRACHLOROETHYLENE	33000000 (1)	1300000	
28)	TOLUENE	1500000	130000	
29)	1,1,1-TRICHLOROETHANE	980000	130000	
30)	1,1,2-TRICHLOROETHANE	ND	130000	
31)	TRICHLOROETHYLENE	5100000	130000	
32)	TRICHLOROFLUOROMETHANE	ND	130000	
33)	VINYL CHLORIDE	ND	250000	
34)	XYLENE (TOTAL)	310000	130000	

ND = NOT DETECTED (1) - RESULTS REPORTED FROM DILUTION #1
MDL= METHOD DETECTION LIMIT (2) - RESULTS REPORTED FROM DILUTION #2
* - REPORTED ON A DRY WEIGHT BASIS

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

TOXIC CHARACTERISTIC LEACHATE PROCEDURE
VOLATILE ORGANICS SUMMARY

			DATA FILES	ANALYSIS DATES
CLIENT	: KILLAM	SAMPLE INITIAL	: >03955	09/09/92
SAMPLE#	: E222473	SAMPLE DIL. #1	:	
METHOD	: SW846 8240	SAMPLE DIL. #2	:	
LEACH BATCH #	: ZH0084	LEACHED BLANK	: >A3557	09/04/92
LEACH SPIKE #	: E222473LS2	LEACHED SPIKE	: >03956	09/09/92

EPA HW #	COMPOUND NAME	SAMPLE RESULT*	REG. LEVEL*	MDL*	LEACH BLANK RES.*	LEACH SPIKE % REC	Q
D018	BENZENE	ND	0.5	5.0	ND	104	
D035	2-BUTANONE	ND	200	10	ND	95	
D040	TRICHLOROETHYLENE	17	0.5	5.0	ND	102	H
D019	CARBON TETRACHLORIDE	ND	0.5	5.0	ND	91	
D021	CHLOROBENZENE	11	100	5.0	ND	102	
D022	CHLOROFORM	ND	6.0	5.0	ND	91	
D027	1,4-DICHLOROBENZENE	7.6	7.5	5.0	ND	101	H
D029	1,1-DICHLOROETHYLENE	ND	0.7	5.0	ND	75	
D028	1,2-DICHLOROETHANE	ND	0.5	5.0	ND	92	
D039	TETRACHLOROETHYLENE	50	0.7	5.0	ND	91	H
D043	VINYL CHLORIDE	ND	0.2	10	ND	61	

* =RESULTS REPORTED IN mg/L NA = NOT APPLICABLE
ND = NOT DETECTED (1) - RESULTS REPORTED FROM DILUTION #1
MDL= METHOD DETECTION LIMIT (2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INCICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
L =VALUE CORRECTED FOR BIAS DETERMINED BY LEACHATE MATRIX SPIKE
H =EXCEEDS REGULATORY LEVEL FOR TOXICITY CHARACTERISTIC

NOTE : MDL MAY EXCEED REGULATORY LEVEL DUE TO SEVERITY OF SAMPLE MATRIX
RESULTING IN HIGH DILUTION AS IN WASTE ORGANIC SOLVENTS AND OILS.

TOXIC CHARACTERISTIC LEACHATE PROCEDURE
BASE/NEUTRAL EXTRACTABLE ORGANICS SUMMARY

			DATA FILES	ANALYSIS DATES
CLIENT	: KILLAM	SAMPLE INITIAL	: >C5725	09/02/92
SAMPLE#	: E222473	SAMPLE DIL. #1	:	
METHOD	: SW846 8270	SAMPLE DIL. #2	:	
LEACH BATCH #	: TC0084	LEACHED BLANK	: >C5724	09/02/92
LEACH SPIKE #	: E222473LS1	LEACHED SPIKE	: >C5728	09/02/92

EPA HW #	COMPOUND NAME	SAMPLE RESULT*	REG. LEVEL*	MDL*	LEACH BLANK RES.*	LEACH SPIKE % REC	Q
D027	1,4-DICHLOROBENZENE	0.39	7.5	0.10	ND	67	L
D030	2,4-DINITROTOLUENE	ND	0.13	0.10	ND	97	
D036	NITROBENZENE	ND	2.0	0.10	ND	79	
D032	HEXACHLOROBENZENE	ND	0.13	0.10	ND	101	
D033	HEXACHLOROBUTADIENE	ND	0.5	0.10	ND	85	
D034	HEXACHLOROETHANE	ND	3.0	0.10	ND	84	
D038	PYRIDINE	0.056	5.0	0.10	ND	50	JL

* =RESULTS REPORTED IN mg/L NA = NOT APPLICABLE
ND = NOT DETECTED (1) - RESULTS REPORTED FROM DILUTION #1
MDL= METHOD DETECTION LIMIT (2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INCICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
L =VALUE CORRECTED FOR BIAS DETERMINED BY LEACHATE MATRIX SPIKE
H =EXCEEDS REGULATORY LEVEL FOR TOXICITY CHARACTERISTIC

NOTE : MDL MAY EXCEED REGULATORY LEVEL DUE TO SEVERITY OF SAMPLE MATRIX RESULTING IN HIGH DILUTION AS IN WASTE ORGANIC SOLVENTS AND OILS. IF MDL EXCEEDS REGULATORY LEVEL FOR PYRIDINE, 2,4-DINITROTOLUENE, AND/OR HEXCHLOROBENZENE, THE MDL BECOMES THE REGULATORY LEVEL.

TOXIC CHARACTERISTIC LEACHATE PROCEDURE
ACID EXTRACTABLE ORGANICS SUMMARY

CLIENT	:	KILLAM	SAMPLE INITIAL	:	>C5725	DATA FILES	:	>C5725	ANALYSIS DATES	:	09/02/92
SAMPLE#	:	E222473	SAMPLE DIL. #1	:							
METHOD	:	SW846 8270	SAMPLE DIL. #2	:							
LEACH BATCH #	:	TC0084	LEACHED BLANK	:	>C5724				09/02/92		
LEACH SPIKE #	:	E222473LS1	LEACHED SPIKE	:	>C5728				09/02/92		

EPA HW #	COMPOUND NAME	SAMPLE RESULT*	REG. LEVEL*	MDL*	LEACH BLANK RES.*	LEACH SPIKE % REC	Q
D026	CRESOL, total	0.17	200	0.10	ND	48	L
D037	PENTACHLOROPHENOL	ND	100	0.50	ND	72	
D041	2,4,5-TRICHLOROPHENOL	ND	400	0.10	ND	61	
D042	2,4,6-TRICHLOROPHENOL	ND	2.0	0.10	ND	77	

* =RESULTS REPORTED IN mg/L NA = NOT APPLICABLE
ND = NOT DETECTED (1) - RESULTS REPORTED FROM DILUTION #1
MDL= METHOD DETECTION LIMIT (2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INCICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
L =VALUE CORRECTED FOR BIAS DETERMINED BY LEACHATE MATRIX SPIKE
H =EXCEEDS REGULATORY LEVEL FOR TOXICITY CHARACTERISTIC

NOTE : MDL MAY EXCEED REGULATORY LEVEL DUE TO SEVERITY OF SAMPLE MATRIX
RESULTING IN HIGH DILUTION AS IN WASTE ORGANIC SOLVENTS AND OILS.



2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E222473	08/26/92	08:30	EE	OTHER-SOLID - T-1, V-1, COMPOSITE HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	3100	UG/KG	09/09/92	KSH
AROCHLOR 1221	ND	3100	UG/KG	09/09/92	KSH
AROCHLOR 1232	ND	3100	UG/KG	09/09/92	KSH
AROCHLOR 1242	1500000	160000	UG/KG	09/09/92	KSH
AROCHLOR 1248	ND	3100	UG/KG	09/09/92	KSH
AROCHLOR 1254	ND	3100	UG/KG	09/09/92	KSH
AROCHLOR 1260	ND	3100	UG/KG	09/09/92	KSH

ND = NOT DETECTED

UG/KG = PPB MG/KG = PPM

MDL = METHOD DETECTION LIMIT

ALL RESULTS REPORTED ON A DRY WEIGHT BASIS

VINCENT J. PUGLIESE
PRESIDENT



2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E222473	08/26/92	08:30	EE	OTHER-SOLID - T-1, V-1, COMPOSITE HEXCEL, LODI, NJ

TCLP LEACHATE ANALYSIS	RESULT	EPA#	RL	MDL	UNITS	DATE	INIT
ARSENIC, LEACHATE	<0.50	D004	5.0	0.50	MG/L	09/02/92	BDB
BARIUM, LEACHATE	0.63	D005	100	0.10	MG/L	09/02/92	BDB
CADMIUM, LEACHATE	<0.005	D006	1.0	0.005	MG/L	09/02/92	BDB
CHROMIUM, LEACHATE	<0.010	D007	5.0	0.010	MG/L	09/02/92	BDB
LEAD, LEACHATE	<0.50	D008	5.0	0.50	MG/L	09/02/92	BDB
MERCURY, LEACHATE	<0.001	D009	0.20	0.001	MG/L	09/01/92	SMH
SELENIUM, LEACHATE	<0.50	D010	1.0	0.50	MG/L	09/02/92	BDB
SILVER, LEACHATE	<0.030	D011	5.0	0.030	MG/L	09/02/92	BDB

UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT
RL = REGULATORY LEVEL

VINCENT J. PUGLIESE
PRESIDENT

883970045

7

ANALYSIS REPORT

SAMPLE No	COLLECTED			POINT OF COLLECTION
	DATE	TIME	BY	
E222473	08/26/92	08:30	EE	OTHER-SOLID - T-1, V-1, COMPOSITE HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
CORROSIVITY AS pH	NC			08/27/92	LM
CYANIDE REACTIVITY ¹	<19	19	MG/KG	08/27/92	SRT
IGNITABILITY (FLASHPOINT)	>200		DEG F	09/10/92	LMM
PETROLEUM HYDROCARBONS	1000	25	MG/KG	08/28/92	MKR
SOLIDS, TOTAL PERCENT	8.0	2.0	%	08/27/92	NM
SULFIDE REACTIVITY ¹	<250	250	MG/KG	09/08/92	KEG
pH	7.6		SU	08/26/92	LM

¹ METHOD DETECTION LIMIT (MDL) ELEVATED DUE TO LOW % SOLIDS.

ND = NOT DETECTED
 UG/KG = PPB MG/KG = PPM
 MDL = METHOD DETECTION LIMIT
 ALL RESULTS REPORTED ON A DRY WEIGHT BASIS

VINCENT J. PUGLIESE
 PRESIDENT

8

883970047